

**U.S. DEPARTMENT OF ENERGY
NATIONAL NUCLEAR SECURITY ADMINISTRATION
NEVADA OPERATIONS OFFICE**

ORDER

NV O 440.X

Approved: 01-03-03
Review Date: 01-03-05
Expires: 01-03-07

**UNDERGROUND OPERATIONS
SAFETY AND HEALTH**



INITIATED BY:
Environment, Safety, and Health Division

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1. OBJECTIVES.

- a. To adopt clear, unambiguous, and up-to-date Standards for the conduct of underground operations at the Nevada Test Site (NTS). It is in the best interest of the National Nuclear Security Administration Nevada Operations Office (NNSA/NV) to adopt, via this Order, an Underground Operations Safety and Health Standard based on national consensus standards. The Standards chosen are from the Mine Safety and Health Administration's Title 30 Code of Federal Regulations (CFR) series of Standards; the Occupational Safety and Health Administration's Occupational Safety and Health Standards' 29 CFR 1910, and Safety and Health Regulations for Construction's 29 CFR 1926; and American National Standards Institute (ANSI).
- b. To ensure the safe conduct of work underground necessary to support the test and experimental activities of various NNSA/NV mission-related and Work for Other programs or projects. The hazards associated with each test or experimental activity will be identified and controlled through the work planning and authorization processes applicable to that project or program. This may include the identification of requirements unique to a test activity that are beyond the purview of this Order and Contractor Requirements Document (CRD).

2. CANCELLATION. This Order cancels DOE/NV-353, UC-707, *U.S. Department of Energy, DOE Nevada Operations Office, Nevada Test Site, Underground Safety and Health Standards*, dated May 1993, revised July 1997 (Revision 1).

3. APPLICABILITY.

- a. NNSA/NV Elements. The provisions of this Order apply to all NNSA/NV organizational elements.
- b. Contractors. Requirements applicable to NNSA/NV Performance-Based Management Contractor, Security Services Contractor, National Laboratories, other federal agencies, and other organizations (users) of NNSA/NV resources are set forth in the CRD.

4. RESPONSIBILITIES.

- a. Manager. Ensures applicable activities conducted at the NTS are accomplished in accordance with the Standards cited in Section 6, References.

- b. Assistant Manager for Technical Services (AMTS). Support the Office of Primary Responsibility (OPR) with sufficient resources to meet the requirements of this Order.
 - c. Assistant Managers. Conduct assessments of projects and programs for which they are responsible to ensure effective implementation of the requirements in this Order.
 - d. Director, Environment, Safety, and Health Division (ESHD).
 - (1) Provides guidance and direction in all matters pertaining to the interpretation and applicability of the requirements of this Order.
 - (2) Conducts assessments to ensure the adequate implementation of this Order.
 - e. Program and Project Managers. Ensure programs and projects for which they are responsible effectively implement the requirements in Section 6, References.
5. REQUIREMENTS. Assessments and validations to ensure the adequate implementation of the requirements of this Order will be conducted in accordance with NV M 220.XB, NNSA/NV OVERSIGHT MANAGEMENT SYSTEM.
6. REFERENCES.
- a. ANSI "Z" 136.1, *Safe Use of Lasers*.
 - b. 29 CFR 1910.1200 (29 CFR 1926.59), *Hazard Communication*.
 - c. 30 CFR 48 (only Parts 48.2, .48.5, 48.6, 48.8, and 48.11), *Training and Retraining of Miners (and Other Underground Workers)*.
 - d. 30 CFR 49, *Mine Rescue Teams*.
 - e. 30 CFR 57, *Health and Safety Standards for Underground Metal and Nonmetal Mines*.
 - f. 30 CFR 58, *Health Standards for Metal and Nonmetal Mines (Abrasive Blasting and Drill Dust Control)*.

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g. 29 CFR 1910.95 (29 CFR 1926.52), *Occupational Noise Exposure*.

NOTE: Where the above referenced standards are unclear or inadequate, contact the OPR for this Order, NNSA/NV ESHD, for guidance.

7. CONTACT. Questions concerning this Order will be addressed to AMTS, ESHD, at (702) 295-1433.



Kathleen A. Carlson
Manager

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**Attachment 1
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CONTRACTOR REQUIREMENTS DOCUMENT (CRD)

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All Performance-Based Management Contractors, Security Services Contractors, national laboratories, other federal agencies, and other users of the Nevada Test Site must comply with the requirement below:

- **FLAMMABLE LIQUID CONTROL**. The use of flammable liquids underground which have a flash point below 100 degrees Fahrenheit must be strictly controlled and monitored in accordance with a written plan or procedure. Flammable liquids which have a flash point below 100 degrees Fahrenheit must not be stored underground.